

Notice of Allowability

Application No.

10/727,148

Applicant(s)

WHANG ET AL.

Examiner

MANSOUR M. SAID

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/3/03.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

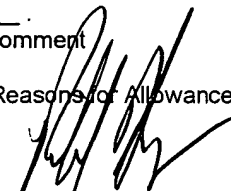
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 8/5/04
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
- ☒ Examiner's Amendment/Comment
- ☒ Examiner's Statement of Reasons for Allowance
- ☐ Other _____


RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

DETAILED ACTION*Allowable Subject Matter***1. Claims 1-18 are allowed.**

The following is an examiner's statement of reasons for allowance: Claims 1-18 are allowed since certain key features of the claimed invention are not taught or fairly suggested by prior art. **In claims 1 and 10**, “wherein, during the reset period, said plurality of short pulses form a plurality of discharges each duration of which is limited; and wherein a standardized wall charge is formed in each of the discharge cells due to the plurality of discharges so that the selective discharge is easily generated by application of data pulses during the address period”. **In claim 8**, “accumulating wall charge in the discharge cells during the reset period; erasing at least a part of the accumulated wall charge, during the reset period, by successively generating a plurality of discharges each duration of which is limited, so that stable data write operation is performed in the address period; and addressing at least a part of said discharge cells by applying data pulses to at least a part of said electrodes to enable selective discharge of said discharge cells according to said image information in the address period”. **In claim 9**, “accumulating wall charge in the discharge cells, during the reset period, by successively generating a plurality of discharges each duration of which is limited, so that stable data write operation is performed during the address period; erasing at least a part of the accumulated wall charge during the reset period; and addressing at least a part of said discharge cells by applying data pulses to at least a part of said electrodes to enable selective discharge of said discharge cells according to said image information during the address period”. **In claim 17**, “means for accumulating wall charge

in the discharge cells during the reset period; means for erasing at least a part of the accumulated wall charge, during the reset period, by successively generating a plurality of discharges each duration of which is limited, so that stable data write operation is performed during the address period; and means for addressing at least a part of said discharge cells by applying data pulses to at least a part of said electrodes to enable selective discharge of said discharge cells according to said image information during the address period". **In claim 18,** "means for accumulating wall charge in the discharge cells, during the reset period, by successively generating a plurality of discharges each duration of which is limited, so that stable data write operation is performed during the address period; means for erasing at least a part of the accumulated wall charge during the reset period; and means for addressing at least a part of said discharge cells by applying data pulses to at least a part of said electrodes to enable selective discharge of said discharge cells according to said image information during the address period". The closest prior art Son et al. (2004/0212558 A1) teach a plasma display panel (PDP) by which reset stabilization can be achieved are provide, a reset period for initializing the state of respective cells, and a rest stabilization period for inducing discharging in a discharge space between cells is additionally performed before the reset period ... the reset operation can be performed in a state where discharge cells between electrodes are sufficiently primed, however, singularly or in combination with other prior art, fail to anticipate or render the above underlined limitations obvious.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Onozawa et al. (6,781,564 B2) teach a plasma display having one sub-field including a rest period, a scan period and a sustain period, during the reset period, pulse voltage are applied to the first electrode X and the second electrodes Y1 to Yn alternately to cause an electrical discharge phenomenon over the entire screen.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mansour M. Said whose telephone number is 571-272-7679. The examiner can normally be reached on Monday through Thursday from 8:30-6:00 P.M. The examiner can also be reached on alternate Friday from 8:30 a.m. to 5:00 p.m. EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hjerpe, Richard A. whose telephone number is 571-272-7691.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: 571-273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window at the Randolph Building, 401, Dulany Street, Alexandria, VA 22314.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mansour M. Said

8/2/06

A handwritten signature in black ink, appearing to read 'R. Hjerpe', is positioned above the printed name and title.

RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600